## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10219

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7): B01J 29/65, 29/66, 29/67  US CL: 502/64, 66, 75, 85  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  U.S.: 502/64, 66, 75, 85			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Α	US 6,514,470 B1 (OTT et al) 04 February 2003 (04.02.04), columns 1-5.		1-27
Α	US 4,335,019 A (BOWES et al) 15 June 1982 (15.06.1982), columns 1-4.		1-27
A	US 4,503,024 A (BOURGOGNE et al) 05 March 1985 (05.03.1985), columns 1-4.		1-27
Α	US 5,118,482 A (NARAYANA et al) 02 June 1992 (02.06.1992), columns 1-4.		1-27
Α	US 6,103,208 A (OGAWA et al) 15 August 2000 (15.08.2000), columns 1-4.		1-27
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the	
		principle or theory underlying the inve	ention
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		"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other sucl	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th	e art
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
06 August 2004 (06.08.2004)		80 AUG 2004	
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